## **Short Communication**

## Bryophyllum × houghtonii (D.B.Ward) P.I.Forst., a new combination in Crassulaceae for the hybrid Mother of Millions

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The naturalised occurrence in Australia of the hybrid Mother of Millions (Bryophyllum daigremontianum(Raym.-Hamet&H.Perrier) A.Berger × B.delagoense (Eckl. & J.Zeyh.) Schinz) has been recognised for some time (Stanley 1983; Forster 1985, 1992, 1996; Hannan-Jones & Playford 2002; Hannan-Jones 2005 et al.) with the earliest herbarium collection at BRI from 1965. The taxon has now been formally named at species rank (Ward 2006), but the epithet is available only in Kalanchoe. As noted by Forster (1997), the genera Bryophyllum and Kalanchoe are easily distinguished on morphological grounds. To date limited molecular data supports the continued recognition of the two genera (Gehrig *et al.* 2001).

The necessary new combination for the nothospecies is made here.

**Bryophyllum** × **houghtonii** (D.B.Ward) P.I.Forst., **comb. nov.** 

Kalanchoe × houghtonii D.B.Ward, Cact. Succ. J. (U.S.) 78(2): 94 (2006). **Type:** U.S.A., Florida, central Merritt Island, Brevard Co., 10 February 2000, D.B. Ward 10700 (holo: FLAS; iso: FTG, NY, SD, US, USF [all n.v.])

Bryophyllum daigremontianum (Raym.-Hamet & H.Perrier) A.Berger × B.delagoense (Eckl. & J.Zeyh.) Schinz

## References

- FORSTER, P.I. (1985). The genera *Kalanchoe* and *Bryophyllum* in cultivation. *Anacampseros* 1: 37–41, 52–56, 2: 4–8.
- (1992). Notes on the naturalised flora of Queensland, 2. *Austrobaileya* 3: 761–763.

- (1996). Naturalized succulents in the Australian flora. *Haseltonia* 4: 57–65.
- \_\_\_\_ (1997). Notes on the naturalised flora of Queensland, 3. *Austrobaileya* 5: 113–119.
- Gehrig, H., Gaussmann, O., Marx, H., Schwarzott, D. & Kluge, M. (2001). Molecular phylogeny of the genus *Kalanchoe* (Crassulaceae) inferred from nucleotide sequences of the ITS-1 and ITS-2 regions. *Plant Science* 160: 827–835.
- HANNAN-JONES, M.A. & PLAYFORD, J.P. (2002). Biology of Australian weeds. 40. Bryophyllum Salisb. species. Plant Protection Quarterly 17: 42–57.
- Hannan-Jones, M.A., Lowe, A.J., Scott, K.D., Graham, G.C., Playford, J.P. & Zalucki, M.P. (2005). Isolation and characterization of microsatellite loci from mother-of-millions, *Bryophyllum delagoense* (Crassulaceae), and its hybrid with *Bryophyllum daigremontianum*, 'Houghton's hybrid'. *Molecular Ecology Notes* 5: 770–773.
- Stanley, T.D. (1983). Crassulaceae. In T.D. Stanley & E.M. Ross (eds.), Flora of South-east Queensland, 1: 217–219. Queensland Department of Primary Industries: Brisbane.
- Ward, D.B. (2006). A name for a hybrid *Kalanchoe* now naturalized in Florida. *Cactus & Succulent Journal (U.S.)* 78(2): 92–95.